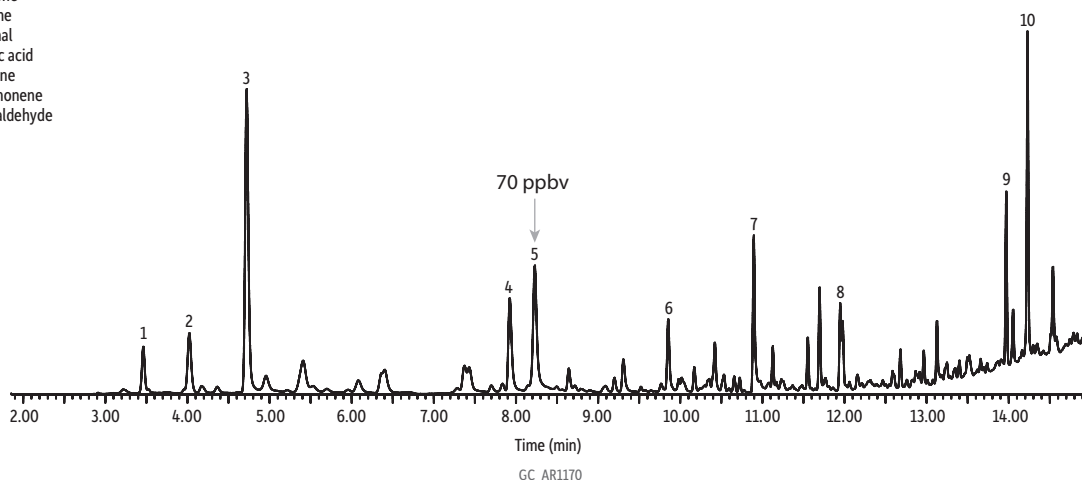


16-hr Laboratory Air Sample with radiello 145

- Peaks**
1. Propene
 2. 2-Methyl-1-propene
 3. Acetaldehyde
 4. Acetone
 5. Hexane
 6. Butanal
 7. Acetic acid
 8. Toluene
 9. D-Limonene
 10. Benzaldehyde



Column Rtx-VMS, 60 m, 0.25 mm ID, 1.40 μ m (cat.# 19916)
with MXT low-dead-volume connector (cat.# 20536)

Sample Injection Laboratory air sample
on-column

Oven
Oven Temp.: 40 °C (hold 7 min) to 250 °C at 30 °C/min (hold 2 min)

Carrier Gas He, constant flow

Flow Rate: 2.0 mL/min

Detector MS

Mode: Scan

Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
2	8.80	38	226

Transfer Line
Temp.: 250 °C

Analyzer Type: Quadrupole

Source Type: Extractor

Extractor Lens: 6 mm ID

Source Temp.: 230 °C

Quad Temp.: 150 °C

Electron Energy: 70 eV

Tune Type: BFB

Ionization Mode: EI

Preconcentrator Markes Unity

Trap 1 Settings
Type/Sorbent: radiello 145
Desorb temp.: 350 °C
Desorb flow: 50 mL/min
Desorb time: 300 sec

Trap 2 Settings
Type/Sorbent: Air Toxics
Cooling temp.: 30 °C
Desorb temp.: 310 °C
Desorb time: 3 sec

Instrument Agilent 7890B GC & 5977A MSD

Notes The radiello 145 passive air sampler (RAD145) utilizes a stainless steel net cartridge packed with 350 mg of graphitized charcoal (Carbograph 4). Airborne volatile organic compounds (VOCs) were adsorbed to the charcoal and then thermally desorbed and analyzed by GC-MS.

Trap 1 conditions were used for radiello desorption. Trap 2 conditions were used for Unity desorption.